7200050

No.

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TO ALL TO WHOM THESE; PRESENTS SHATE, COME:

National Seed Development Organization III

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AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of seventeen. Years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, importing it, or exporting it, or using it in producing a hybrid or different ty therefrom, to the extent provided by the Plant Variety Protection Act.

United States seed of this variety (1) shall be sold by variety name only as of certified seed and (2) shall conform to the number of generations of the owner of the rights. (84 stat. 1542, as amended, 7 u.s.c. 2321 et seq.)

ITALIAN RYEGRASS

'Maris Ledger'

In Testimony Waterrot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 18th day of December in the year of our Lord one thousand nine

and eighty.

Attest:

Commissioner.
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agricultures

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

IUM Multiflorum GRAMINEAE 10 · 27.71 FEE RECEIVED \$250.00 \$250.0	
GENUS AND SPECIES NAME IUM	\$ 10/29/80 \$ 10/29/80 \$ TELEPHONE ARE CODE AND NUMBER CODE AND
GENUS AND SPECIES NAME IUM MV	\$ 10/29/80 \$ 10/29/80 \$ TELEPHONE ARE CODE AND NUMBER CODE AND
GRAMINEAE 5. DATE OF DETERMINATION Sec. 1970 5. DATE OF DETERMINATION \$250.00 5. 250.00 5. 250.00 6. NAME OF APPLICANT(S) A. SEED DEVELOPMENT ORGANISATION LID Haw Newton Haw Newton CAMBRIDGE Tel Cambridge 87.1162 9. If the named APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Composition, partnership, association, etc.) State Sponsored 12. Name and mailing address of applicant representative(s), if any, to serve in this application and As in 6 and 7 above 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED: 134. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety) 136. Exhibit B, Botanical Description of the Variety 137. Exhibit C, Objective Description of the Variety	\$ 10/29/80 \$ 10/29/80 \$ TELEPHONE AR CODE AND NUME Cambridge ENGLAND 11. DATE OF INCOPORATION March 190 A receive all pap
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13C. Exhibit C, Objective Description of the Variety	·
•	
13D. Exhibit D, Data Indicative of Novelty	
13E. Exhibit E, Statement of the Basis of Applicant's Ownership	
14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a clas (See Section 83(a) (If "Yes," answer 14B and 14C below.) (See Section 83(a) (If "Yes," answer 14B and 14C below.) (XYES NO	
14B. Does the applicant(s) specify that this variety be 14C. If "Yes," to 14B, how many gener	ations of produc
limited as to number of generations? beyond breeder seed?	CERTIF
The applicant declares that a viable sample of basic seed of this variety will be deposited upon r	equest before iss
ance of a certificate and will be replenished periodically in accordance with such regulations as	may be applicabl
The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the vuniform, and stable as required in Section 41 and is entitled to protection under the provisions of	ariety is distinct
water and the management of the Alice	
Applicant is informed that false representation herein can jeopardize protection and result in pe	nalties.
	. № 17
30/10/75 CAMEAUGENTER OF APPLICA	1/20/
(DATE)	173
	NT)
(DATE) (SIGNATURE OF APPLICA	VTI

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

Origin of Material

Material from three sources of Italian ryegrass contributed to the variety approximately as follows: 45% Tetrone, 35% C1V and 20% from uncertified commercial material.

Selected material from these sources was combined using polycross and recurrent selection. The recurrent selection varying in plant number over four generations which followed was aided by a controlled environment for selection for disease and cold tolerance and then selection for yield in the field. Yield was measured by some four drymatter cuts during the season from a bulked polycross population compared with standard varieties e.g. Tetila. Voluntarily abandoned

Variants/Stability

The basic plants reselected over 4 generations were finally observed not to have any significant variants. In stability tests two seed lots over three a harvest years were compared in the same year and trial and were found not to differ statistically at the 1% level. These results were confirmed by comparative trials for national listing when two seed stocks were compared over at least three harvests in the same year and trial.

WME/PMF

EXHIBIT B

BOTANICAL DESCRIPTION

Tetraploid MARIS LEDGER (1G2) : Italian ryegrass

Lolium multiflorum

2n = 28

Holunt still and milling ORIGIN: A tetraploid form of Lolium multiflorum derived from 3 seed sources, with recurrent selection for disease resistance and cold tolerance

HEADING DATE : Early - (20 days earlier than S23 perennial ryegrass)

HEADING IN YEAR OF SOWING : less than 20%, following spring sowing

HABIT OF GROWTH : Erect

LEAVES : longer and wider than those of diploid L. multiflorum varieties.

PERSISTENCY: average for the multiflorum type

SEED SIZE : 1000 seed wt. 4.8g - nearly twice the weight of the mean for L. multiflorum varieties.

DISEASE RESISTANCE : Trials conducted at Cambridge, U.K. Lat. 52° N Maris Ledger showed excellent resistance to foliar disease including Puccinia spp and Erysiphe spp

EXHIBIT B

MARIS LEDGER

Tetraploid Italian Ryegrass

Additions

Seed size

 similar to those of other tetraploid multiflorum types e.g. Sabalan, Tetila.

Disease

- Maris Ledger has shown more tolerance to the diseases Puccinia spp. and Erysiphe spp. than other tetraploid varieties e.g. Tetila

Persistence

- marginally less persistent than the varieties Sabalan and Tetila.

WME/PMF

EXHIBIT C

MARIS LEDGER

Tetraploid Italian ryegrass

Additions

Habit of growth

- Maris Ledger is more erect than Tetila and similar varieties the difference being significant statistically at the 1% level.

Height of plant

- Maris Ledger is also taller at ear emergence than Tetila and similar varieties the difference again being statistically different at the 1% level.

WME/PMF

Application No. 72050, 'Maris'

Maris Ledger

U.S. DEPARTMENT OF AGRICULTURE Agricultural Marketing Service Grain Division

Objective Description of Cultivars

RYEGRASS

(Lolium spp.)

	(HOTTUM SPP.)
1.	SPECIES:
[]	l=L. multiflorum (annual or Italian: includes Westerwoldicum) 2=L. perenne (perennial) 3=L. rigidum (includes Wimmera) 4=Hybrid (of species) 5=Other (specify)
2. 2	PLOIDY: 1=Diploid 2=Tetraploid 3= Other (specify)
3. [<u>/</u>]	DURATION: 1=Annual or biennial 2=Short lived perennial (3-4 years) 3=Perennial (more than 4 years)
7:11	STANDARD CULTIVARS
	l=Gulf 2=Wimmera 62 3=Linn 4=Pelo 5=Norlea 6=Aberystwyth S-23 7=Manhattan 8=Pennfine
4.	MATURITY (50% Headed): (Use standard cultivars from above.)
20	1=Very early 3=Early 5=Medium 7=Late 9=Very late Days earlier than 6 standard cultivar Days later than standard cultivar
5 	MATURE PLANT HEIGHT: (Use standard cultivars from above.) cm. High
0	(Use standard cultivars from above.)
·	
-	Percent damage of application cultivar Percent damage of standard cultivar
4	TURF DENSITY: (Use standard cultivars from above.)
7.	
-	Tillers per 100 sq. cm. Less tillers per 100 sq. cm. than standard cultivar
H	More tillers per 100 sq. cm. than standard cultivar
8.	FLAG LEAF (at full growth): (Use standard cultivars from above.)
-	cm. Length(from ligule to tip) cm. Shorter than standard cultivar
-	cm. Longer than standard cultivar
	cm. Longer than standard cultivar mm. Width (at widest point)
	mm. Narrower than standard cultivar
	mm. Wider than standard cultivar Flag leaf at boot stage: l=Deflexed 3=Recurved 5=Horizontal
	Flag leaf at boot stage: l=Deflexed 3=Recurved 5=Horizontal 7=Semi-erect 9=Erect
9.	LEAVES:
	Vernation: l=Leaves rolled in young shoots 2=Leaves semi-rolled (folded with rolled edges) 3=Leaves folded in young shoots O O & Plants with anthocyanin in lower leaf sheath E Foliage color: l=yellow green 2=medium green 3=blue green
10.	SPIKE:
	mm. Spike length (tip to internode below lowest floret)
	mm. Shorter than (Use standard cultivars from above.)

10. SPIKE (continued):
mg. per ten spikes (trimmed to internode below lowest floret) mg. lighter per ten spikes than mg. heavier per ten spikes than Florets per spikelet Percentage of plants with:
Rachis: % smooth % rough Spike color: 98 % green 9 % purple Lemma: mm. awn length
mm. glume length 1=Spikelet length nearly equal to outer glumes 2=Spikelet length much longer than outer glumes
11. COLEOPTILE: SPlants with anthocyanin in coleoptile
12. ANTHER COLOR:
% Plants with white anthers Plants with yellow anthers Plants with purple anthers
13. ROOT AND PLANT CHARACTERS:
% Plants with prostrate growth habit
Plants with upright growth habit
/ O O % Plants with fluorescent roots
14. SEED: (excluding cum) total length total width
4800 mg. per 1,000 seed 80 mm. total length of 10 seeds mm. total width
15. DISEASE (0=Not tested, 2=Highly susceptible, 4=Moderately susceptible,
6=Moderately resistant, 8=Highly resistant):
8 Crown rust (Puccinia coronata) 8 Mildew
8 Crown rust (Puccinia coronata) 8 Mildew O Leaf spot (Helminthosporium) O Red thread (Corticium)
Snow mold (Typhula) O Brown patch (Rhizoctonia)
Oblian spot (Sclerotinia) Other (specify)
16. INSECT (0=Not tested, 2=Highly susceptible, 4=Moderately susceptible,
6=Moderately resistant, 8=Highly resistant):
O Specify
17. GIVE RESEMBLANCE VALUE IN LEFT COLUMN AND VARIETY IN RIGHT COLUMN FOR VARIETY WITH WHICH COMPARISON IS MADE: (1=Less than, 2=Same as, 3=More
erect, more resistant, denser, more persistent, darker or greater height.)
Resemblance Character Plant habit (erectness) Similar variety S22
<u> </u>
Tillering " Winter hardiness "
3 High temp.stress resistance "
Turf persistence
Plant color
Vertical seedling growth rate
Crown density
Mower shredding resistance
18. GIVE AREA OF ADAPTATION AND INTENDED USE: GENERAL - *
19. GIVE AREA TEST RESULTS PRESENTED FROM: CAMBRIDGE 52°N LAT
COMMINION
COMMENTS: * Especially valuable where boliar disease venilare
COMMENTS: * Especially valuable where foliar disease resistance important.

HYBRID RYEGRASS (Lolium perenne L. x Lolium multiflorum Lam.)

ITALIAN RYEGRASS (Lollum multiflorum Lam.)

SABEL

Breeder;

Welsh Plant Breeding Station, Plas Gogerddan, near

Aberystwyth,

Origin:

Material from a series of pair crosses between tetraploid

L. multiflorum Lam. and early heading tetraploid L. perenne

Ŀ.,

CLASSIFICATION

Ploidy

: Tetraploid

• Ear emergence

Habit of growth

Very early Intermediate

Height at ear emergence

Tall

Length of flag leaf

Very long

Width of flag leaf

: Very wide

Tendency to flower in

: Very little

year of planting Heading in aftermath

: Very much

DIFFERENCES FROM SIMILAR VARIETIES:

Over one day earlier than Sabrina in ear emergence, but appears to be similar to Sabrina in most characters with the exception of Spring growth. It is significantly taller than Sabrina in Spring height.

MARIS LEDGER

Breeder: Plant Breeding Institute, Maris Lane, Trumpington, Cam-

bridge, England.

Origin:

Material selected from Tetrone C.I.V. and some commer-

cial seed.

CLASSIFICATION:

Ploidy

Tetraploid

Ear emergence
Habit of growth

Early Erect

Height at ear emergence :

Tali Very long

Length of flag leaf Width of flag leaf

Very wide

Tendency to flower in

year of planting : None or trace

DIFFERENCES FROM SIMILAR VARIETIES:

About 1½ days earlier than Tetila in ear emergence but more erect in habit of growth and taller in height at ear emergence than Tetila.

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Application No. 72050, 'Maris Ledger' Italian ryegrass

Exhibit D NOVELTY STATEMENT

"Maris Ledger' is most similar to 'Tetila' but 'Maris Ledger' is more erect in habit of growth and 4 centimeters taller at ear emergence than 'Tetila'.

MARIS LEDGER AND TETILA

The habit of growth is the angle that the outer shoots make with the horizontal. A visual estimate of 15° intervals.

	Habit of Growth			•
	Maria Ledger	Tetila	P-0.05	P=0.01
1975/76	75.7 **	71.0	3.43	4.50
1974/75	78.5 **	74.2	2,97	3.92
1973/74	72.7	71.5	3.12	4.11
1972/75	73.2 **	70.6	1.15	1.51
•	Height at ear emergence (centimeters)			
	Maris Ledger	Totila	P=0.05	P=0.01
1975/76	69.8 **	60.7	5.28	6.94
1974/75	78.4	78.3	5.62	7.42
1975/74	82.4 *	77.0	4•79	6.3
1972/73	64.4	61.3	3.76	4.94
	* Significant	1t 5%	** Signi	ficant at 1%

NATIONAL SEED DEVELOPMENT ORGANISATION LTD.
Newton Hall
Newton
CAMBRIDGE Tcl Cambridge 871367

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bull and

Maris Ledger was earlier than Tetila in two years out of 3, with a mean difference of 0.6 days

Supporting data supplied by National Institute of Agricultural Botany, Cambridge U.K.

	Hybrid RG Date EE	(Days after	March 1st)
	1975	1976	1977
Maris Ledger	87.0)	85.4)	82.9)
Tetila	87.0) 85.8) N.S.	86.9 } *	82.9 84.5 N.S.
SE	0.47	0.55	0.59
LSD 5%	1.3	1.5	1.65
LSD 1%	1.8	2.0	2.16

MARIS LEDGER

Voluntarily abandoned

Basis of Applicant's ownership

This is to certify that the tetraploid Italian ryegrass MARIS LEDGER is jointly owned by the National Seed Development Organisation Limited, Cambridge and the Plant Breeding Institute, Cambridge.

Date 30.10.1975.

W.M. Evans

(Crop Variety Development Executive)